- Bone Development
  - 2 TYPES (based on type of tissue)
    - Intramembranous ossification
      - Mixed bones
        - Occipital, temporal, vomer, mandible, clavicle
      - Fibrous membrane or layer
      - In embryos and fetuses-->vascularized mesenchyme
      - Formed within the CT proper
      - In flat bones of skull
        - Frontal, Parietal, Maxilla, Palatine, Lacrimal, Nasal Bones
    - Endochondral ossification (intracartilginous)
      - HYALINE CARTILAGE
        - Model in shape of bone before any tissue is laid down, cartilage is removed and replaced with bone
      - Occurs in most bones of the body
        - Long, short, and irregular bones
        - Some bones of skull
          - Ethmoid, Sphenoid, Zygomatic arches
  - Formation (both types)
    - 1. Osteoprogenitor Cells differentiate into Osteoblasts
    - 2. Osteoblasts lay down osteoid on surface
    - 3. Mineralization of osteoid occurs, osteoblast--> osteocyte
    - 4. Appositional growth